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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/831,555	08/14/2001	Balbir Kumar	540-311			
75	90 10/03/2002					
Nixon & Vanderhye			EXAMINER			
1100 North Glebe Road 8th Floor Arlington, VA 22201-4714			WIMER, MICHAEL C			
			ART UNIT	PAPER NUMBER		
			2821			
			DATE MAILED: 10/03/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Applicati n Ne	o.		Applicant(s)		<u>η</u>					
Office Action Summary		09/831,555			KUMAR, BALBIR		(h					
		Examiner			Art Unit							
		Michael C. Wir		l l	2821							
	- The MAILING DATE of this communication app	pears on the cov	er sh	eet with the co	rrespondence ad	idress						
Period fo	r Reply	V 10 05T TO 5	VDID	E 2 MONTH/S	S) EROM							
THE N - Exten after to - If the - If NO - Failur - Any re earne	DRTENED STATUTORY PERIOD FOR REPLINATION DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 (SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to treply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailin d patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, he	owever, minimu ire SIX	may a reply be time m of thirty (30) days (6) MONTHS from the	ely filed will be considered time he mailing date of this o	oly. communication.						
Status	Because to communication(s) filed on 14	August 2001										
1) 🖾	Responsive to communication(s) filed on 14	his action is nor	n-fina	I								
2a)☐	11110 4040011 10 1 11 11				nsecution as to t	he merits is						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.												
Dispositi	on of Claims											
	Claim(s) 1-23,25 and 27 is/are pending in the											
	4a) Of the above claim(s) is/are withdra	awn from consid	derati	on.								
5)	Claim(s) is/are allowed.											
6)⊠	6)⊠ Claim(s) <u>1-8,13-23,25 and 27</u> is/are rejected.											
7)⊠	7)⊠ Claim(s) <u>9-12</u> is/are objected to.											
	Claim(s) are subject to restriction and/	or election requ	iirem	ent.								
• -	ion Papers	ıor										
	The specification is objected to by the Examin The drawing(s) filed on is/are: a)□ acc		iected	to by the Exa	miner.							
10)[_]	Applicant may not request that any objection to t	he drawing(s) be	held	in abevance. S	ee 37 CFR 1.85(a).						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.												
If approved, corrected drawings are required in reply to this Office action.												
12) The oath or declaration is objected to by the Examiner.												
· ·	under 35 U.S.C. §§ 119 and 120											
	Acknowledgment is made of a claim for foreign	an priority unde	r 35 l	J.S.C. § 119(a	a)-(d) or (f).							
	☐ All b)☐ Some * c)☐ None of:	g., p.,,										
The same of the state of the st												
	Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No											
	3.⊠ Copies of the certified copies of the priority documents have been received in this National Stage											
	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.											
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).												
	a) \square The translation of the foreign language p Acknowledgment is made of a claim for dome	orovisional appli	catio	n has been red	ceived.		1					
Attachme	nt(s)		_			M - Z-N						
2) Noti	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6. 6)		Interview Summar Notice of Informal Other: .	y (PTO-413) Paper Patent Application (No(s) PTO-152)						
U.S. Patent and	Trademark Office				D-	rt of Paner No. 8						

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DETAILED ACTION

1. Regarding the preliminary amendment "A", filed 5-11-01, Claims 22,23,25 and 27 (i.e., claims 22-27) could not actually be entered or amended because the application was filed with Claims 1-21, and because they were labeled as "(amended)". However, since this is a formal matter, these claims will be acted upon as to their merits.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 3. Claims 1-8,15-19,22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Tang et al (4588994).

Regarding Claims 1-8,15,16,22 and 23 Tang et al show a device 80 for controlling the direction of a radiation beam, the device comprises, a transmission means 12,30 for transmitting the beam from the source 84,89, and a steering means 46,48,88,etc., for steering the beam, the transmission means comprises a body of magnetic material 12 having a central axis forming an aperture therethrough for passing the beam and parallel to the radiation beam, where the steering means causes the radiation beam to emerge from the transmission means offset relative to the central axis in free space in a known direction (Fig. 6, 90,92), all arranged as claimed. The magnetic means applies a

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gradient in magnetism across the aperture and it is not perpendicular to the central axis (Fig. 6). The frequency bands claimed are taught by Tang et al.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 13,14,20,21,25 and 27 rejected under 35 U.S.C. 103(a) as being unpatentable over Tang et al in view of Robertson et al (WO 97/29525, of record).

A conical reflector 8 is shown by Robertson et al in a scanned and polarized antenna system in Fig. 2 to be well known in the antenna art. It would have been obvious to employ such a reflector in the system of Tang et al to prevent scattering. Regarding Claims 20,21,25 and 27, a communications unit including RX/TX, modulator/demodulator is an obvious use for the system disclosed in the primary reference device and notice of such use is hereby taken in order to provide modulation/information transmission and reception.

Allowable Subject Matter

6. Claims 9-12 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (703) 305-3555. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on (703) 308-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Michael C. Wimer Primary Examiner Art Unit 2821

MCW 20 September 2002